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IFAC Technical Committee on Power & Energy Systems (TC6.3)

## Co-sponsored by IFAC TCs on

TC 1.2. Adaptive and Learning Systems  
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TC 9.1. Economic, Business, and Financial Systems  
TC 9.3. Control for Smart Cities

## Call for Participation

We welcome sponsorship from industries, businesses, organizations, associations, regulators, schools and international bodies that wish to showcase products and services. We have put together a number of different packages to provide a level of participation that meets every need. We are open to other suggestions from sponsors as well. For more information visit the symposium website: <http://cpes2021.com>

## Supported by



## The 11<sup>th</sup> Symposium on Control of Power and Energy Systems (CPES2021)



## The Second Announcement and Call-For-Papers

June 22-24, 2021  
Moscow, Russia

<http://cpes2021.com>

## Scope

IFAC Symposium on Control of Power and Energy Systems (CPES) is a regular symposium held by IFAC Technical Committee 6.3 on Power & Energy Systems. CPES addresses all aspects of modeling, operation, and control of power plants and power systems, including dynamic interactions between power plants and power systems, constraint and security control aspects, tools and methods for control system design, test and documentation, real-time simulation and dispatching. Development and application of tools and methods such as modern control theory, computational intelligence techniques, and modeling of uncertainties are also important.

Specifically, IFAC CPES 2021 will focus at the emerging fields like optimal control and management of small and large decentralized units based on renewable resources such as hydro, wind, solar and biomass, the concepts of smart grid, wide-area monitoring and control, virtual power plant, intelligent control in energy systems, and design of energy markets.

IFAC CPES 2021 will renew the more than semicentennial tradition of IFAC events held in Moscow, taking its origin from the 1<sup>st</sup> IFAC World Congress in 1960.



## Exhibition & Technical Tour

At the conference area in ICS: History of Russian control science, Artificial Intelligence technologies in Smart Grid Testbed of ICS. Plans to visit the System operator dispatching center, RT-Soft Building Energy Management Testbed are under preparation.

## Students' Program

- Doctoral colloquium and Students' poster session
- Workshops for students: smart sensing & edge computing, digital twin modeling, deep ANN for PES, IoT architecture

## Venue

V.A. Trapeznikov Institute of Control Sciences of RAS  
65 Profsoyuznaya str., Moscow, 117997, Russia  
(GPS Map 55.6513216126796N, 37.5364489910168E)

## Deadlines

Submission of open invited track  
& invited session proposals: Oct 10, 2020  
Submission of full draft papers(upd.): **Nov 30, 2020**  
Notification of acceptance: Jan 31, 2021  
Submission of full papers: Feb 28, 2021  
Early registration: Mar 31, 2021  
Dates of Symposium: Jun 22-24, 2021

## Topics include (but not limited to)

- Power System Stability and Reliability
- Modelling and control of prosumer resources
- Decentralized control and management
- Intelligent control in smart grid
- Wide-area monitoring and control
- Virtual power plants
- Design of energy markets for smart grid

## Paper Submission

Full draft papers (max. 6 pages and 1MB file size, in word and pdf. format complying with IFAC-POL guidelines) relating to one or more of the topics are encouraged. Draft papers on-line submission deadline is **Friday, October 30, 2020**. All contributions must be in their final form according to IFAC style. Please refer to the following site:

<https://www.ifac-control.org/events/authors-guide>

## Moscow and Visits

Moscow, the capital of the Russian Federation and the second-biggest city in Europe, is easily accessed by 200+ direct flights from all over the world. Nowadays it is a fast-growing megalopolis with **modern smart city infrastructure**, which improves the life of 16+ millions of citizens and numerous guests.

With its unique architecture and culture, dozens of world-famous theaters and museums, Moscow renders the plethora of recreation options including local restaurants, music festivals, entertainment areas and natural parks, being the perfect starting point for traveling to St. Petersburg to enjoy its `white nights` and to many other landmarks of Russia, the world-biggest country.

Obtaining Russian visa may take time, so the visit should be planned beforehand. A free and simple 16-days electronic visa for citizens of 53 countries including EU, China, India, etc.

## Plenary Speakers

To be announced later

## Contact

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